BRUHATH BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

WORK SLIP

Name of Work:- Modified Estimate for Drilling of borewells in kempegowda ward No-01 of Yelahanka Sub Division

Estimated Cost RS:-15.00 Lakh,s

Agency:-Sri Rajesh A (R R Engineering works)

Approved Tender Amount RS:- 1024875.00 (Excluding GST 18%)

Tender Premium:- (-17%)

Modified Est S.No,s	Tender Item S.No,s	Description of Work	Unit	As per Sanctioned Estimate			As per Tender			As per Execution upto 100%			As per Actual Execution above 100% upto 125%			As per Actual Execution above 125%			Total Executed		Difference		Remarks
				Qty	Rate	Amount	Qty	Rate	Amount	Qty.	Rate	Amount	Qty.	Rate	Amount	Qty.	Rate	Amount	Qty.	Amount	Excess	Savings	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	1	Geophysical investigation at site for sinking borewells for supplying drinking water to the habitation either through the Hand Pump MWS or P.W.S.S, by vertical electrical sounding by adopting Venner orSchlumbergers's method, including reconnaissance survey of geological formation. Geophysical investigation of existing ground water in the vicinity, its quality, quantity and acceptability of the users, indicating the location of the site, recommended depth of casing pipe required to seal the top unconsolidated formation including an extra depth of 1.0 metre in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instruments and accessories to work site, engaging technical personal and labour required etc. NOTE: 1) Additional rate on item 1&2 is allowed for drilling in over burden and fixing Casing pipes beyond 20 M (for fixing Casing pipes only) a) Above 20 M and upto 30 M - 15%, b) Above 30 M - 30% (Measurement of overburden is restricted to the depth of casing pipe fixed excluding initial depth of 20M and projection above ground level). 2) A sum of Rs. 100/- is to be deducted for Dry Borewell towards yield test.	No	2.00	5655.10	11310.20	2.00	4693.73	9387.46	2.00	4693.73	9387.46							2.00	9387.46			
2	2	Sinking of Borewell of 165mm dia clear using super fast hydraulic rig of capacity 300 PSIG & above 1100 CMF & above in all strata including over burdern upto 20 m. Fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of rig and supporting vehicle, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (Excluding cost of casing pipes, collars, cap etc., complete) 0 to 50 m	Mtr	100.00	319.00	31900.00	100.00	264.77	26477.00	100.00	264.77	26477.00							100.00	26477.00			
3	3	50 to 100 m	Mtr	100.00	400.40	40040.00	100.00	332.33	33233.00	100.00	332.33	33233.00							100.00	33233.00			
4	4	100 to 150 m	Mtr	100.00	425.70	42570.00	100.00	353.33	35333.00	100.00	353.33	35333.00							100.00	35333.00			
5	5	150 to 200 m	Mtr	100.00	493.90	49390.00	100.00	409.94	40994.00	100.00	409.94	40994.00							100.00	40994.00			
6	6	200 to 250 m	Mtr	100.00	579.70	57970.00	100.00	481.15	48115.00	100.00	481.15	48115.00							100.00	48115.00			
7	7	250 to 300 m	Mtr	100.00	613.80	61380.00	100.00	509.45	50945.00	100.00	509.45	50945.00							100.00	50945.00			
8	8	Supply of ISI mark 175mm nominal bore,plain and steel casing pipe grade of steel Fe 410 of wall thickness conforming to IS 4270-2001 and latest ammendments, electrical resistance welded steel tubes, material and conforming to IS 1387-1993 and manufactured by basic open hearth electric or basic oxygen process in random length of 5-7m both ends.threaded conforming to IS 554-1985 one end fixed with socket conforming to IS 4270-2001 and the other end with screwed pipes all shall be responsibaly free from defects. The tubes shall be responsible straight end should be with ISI marking weighing 25.10kg/m,prices include Collar-Medium duty	Mtr	80.00	2126.30	170104.00	80.00	1764.83	141186.40	80.00	1764.83	141186.40	10.00	1764.83	17648.30				90.00	158834.70	17648.30		
9	9	Supply and delivery of galvanized mild steel tubes of 6mtr standard length heavy duty (C Class) as per IS 1239 (Part-I) 1990 with latest amendments with ISI Mark (one end fitted with Heavy Duty collar and other end fitted with protective cover) 50 mm	Each	50.00	3355.00	167750.00	50.00	2784.65	139232.50	48.00	2784.65	133663.20							48.00	133663.20		5569.30	
10	10	PVC pipe - OD 250mm and 6 Kg/sqcm	Mtr	12.00	1210.00	14520.00	12.00	1004.30	12051.60	12.00	1004.30	12051.60							12.00	12051.60			
11	11	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper withflexible copper with low resistance conductor confirming to13:8130-1984 and virgin grade PVC insulation and powdercoating extruded PVC sheathed suitable for working voltageupto 1100 V as per IS-694:2010. 3C x 6 mm2	Mtr	450.00	242.00	108900.00	450.00	200.86	90387.00	450.00	200.86	90387.00	112.50	200.86	22596.75	17.5	200.86	3515.05	580.00	116498.80	26111.80		
12	12	Fabricating Supplying and Mounting MS Box Made out 14 SWG Suitable For Floor/ Wall Mounting Fully Weather Proof With Provision For Better Heat Dissipation, Provided With Hinged Front Cover, Equipped With Tamper Proof Locking Arrangements, With Suitable Size Clamps With Necessary Cable Entry Pipe With Gland and Box Should be Finished With 2 Coats Of red Oxide Primer Paint And Finally Finished With Approved Colour Enameled Metal Pain Etc, Complete, PWD Electrical SR-19-20 , Page No:30, Item No:5.42.1 ie., 1200 X850X2=2040000, 850X350X2=595000, (350+450)/2=400, 400X1200=480000 =480000X2=960000, 3595000 /100=35950SQCM X0.40=14380	sqm	15.00	14380.00	215700.00	15.00	11935.40	179031.00	4.04	11935.40	48219.02							4.04	48219.02		130811.98	
13	13	Providing,supplying to work site, Submersible Pump Set of 150mm dia suitable for bore well and confirming to IS 8034-2000;3Phase, SS Bowl & Impeller with Low volt Motor as per specifications,as per necessary ammendments and instructions of engineer incharge of work. 15.00 HP - 120 LPM @ 266 m = 23 STG Outlet Dia - 2.00"	No	2.00	76183.80	152367.60	2.00	63232.55	126465.10	1.00	63232.55	63232.55							1.00	63232.55		63232.55	

Sl No	Tender Item S.No	Description of Work	Unit	As per Sanctioned Estimate			As per Tender			As per Execution upto 100%			As per Actual Execution above 100% upto 125%			As per Actual Execution above 125%			Total Executed		Difference		Remarks
				Qty	Rate	Amount	Qty	Rate	Amount	Qty.	Rate	Amount	Qty.	Rate	Amount	Qty.	Rate	Amount	Qty.	Amount	Execess	Savings	
14	14	Earthing: Supplying and fixing and wiring earth electrode for grounding circuits IC cutouts and other equipments on the meter board in the pit. The pits should be filled up with equal proportion of salt and charcoal 150mm around the pipe to complete depth. The connection from the pipe to the conduits etc. is to established through GI wire of sizes as per clause 7.3.3 of IS 732 using 12mm bolts, nuts, washers and check nuts, the pipe shall have 16 through holes of 12mm dia.	No	2.00	4125.00	8250.00	2.00	3423.75	6847.50	1.00	3423.75	3423.75							1.00	3423.75		3423.75	
15	15	Supply and fixing polished wood board made of not lessthan 15mm thick plank on both sides of not more than 2pieces and fixing the same to the wall using tapered invertedwooden plugs screws. 20" x 20" x 2.5"	Each	2.00	315.00	630.00	2.00	261.45	522.90	1.00	261.45	261.45							1.00	261.45		261.45	
16	16	Supplying & fixing of Porcelain fuse channel with cut out onexisting wooden/panel using necessary nuts, bolts andwashers. 63 A	Each	2.00	372.00	744.00	2.00	308.76	617.52	1.00	308.76	308.76							1.00	308.76		308.76	
17	17	Supplying & fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materialsand 'C' Type curve, indicator ON/OFF, energy cross-3 withShort circuit breaking capacity of 10K and complete wiring asrequired confirming to IEC 60898. 50-63 A TPN	Each	2.00	2399.00	4798.00	2.00	1991.17	3982.34	1.00	1991.17	1991.17							1.00	1991.17		1991.17	
18	18	Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work.Loading and Unloading of Stone Boulder/Stone aggregates/ Sand/Kankar/Moorum.	Cum	67.50	204.60	13810.50	67.50	169.82	11462.85	67.50	169.82	11462.85	16.88	169.82	2865.71	208.31	169.82	35375.20	292.69	49703.77	38240.92		
19	19	Supplying and filling in plinth with sand under floors, foundations of bridges including watering ramming consolidating and dressing complete.	Cum	12.00	2394.70	28736.40	12.00	1987.60	23851.20														23851.20
20	20	Supplying PVC ringtite pipes conforming to IS 4985:2000 with latest amendments and conveying to worksite, rolling and lowering into trenches, laying true to line and level and perfect linking at joints, testing and commissioning, including loading unloading at both destinations and cuts of pipes wherever necessary including jointing of PVC pipes and specials (excluding cost of specials) with jointing of approved type, with all labour with all lead & lift including encasing the pipe alround to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation etc. complete and giving necessary hydraulic test to the required pressure as per ISS (Contractor will make his own arrangements for procuring water for testing) etc.63mm outer dia, 6kg/sqcm	Mtr	200.00	153.00	30600.00	200.00	126.99	25398.00	200.00	126.99	25398.00	50.00	126.99	6349.50	292.00	126.99	126.99	37081.08	542.00	68828.58	43430.58		
21	21	Refilling available earth around trenches/pipelines, cables in layers not exceeding 20 cms in depth, compacting each deposited layer by ramming after watering with a lead upto 50 m , and lift upto 1.5 m. Including cost of all labour complete as per specifications	Cum	45.00	134.20	6039.00	45.00	111.39	5012.55	45.00	111.39	5012.55	11.25	111.39	1253.14	236.47	113.46	26825.35	292.68	33091.04	28078.49		
22	22	Supplying fully automatic star-delta starter unit push buttontype with suitable wires, 3 contactors, one adjustablethermal timer mounted on a common base plate held in steel enclosure for use on 400/440 V 3 phase and wired after fixingto the existing wooden board for motor. Above 12.5 HP upto 25 HP	No	2.00	8640.00	17280.00	2.00	7171.20	14342.40	1.00	7171.20	7171.20							1.00	7171.20		7171.20	
		Grand Total RS				1234789.70			1024875.32			788253.96			50713.40			102796.68		941764.04	153510.09	236621.36	

Excess 153510.09
Savings 236621.36
83111.27

cross check Executed Amount 941764.04
Tender Amount 1024875.32
83111.28

941764.04

Percentage of excess comparing to the sanctioned Estimated cost = $\frac{153510.09}{1024875.32}$ x 100 = 14.98

Agency Signature

Assistant Engineer
Ward No-01

Assistant Executive Engineer
Yelahanka Sub Division

Executive Engineer
Yelahanka Division